

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	1	of	30	Attorney Docket Number	CNZ-006USRCE

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1*	US-4,053,590	10-11-1977	Bonsen et al.	
	A2*	US-4,264,739	04-28-1981	Grabner et al.	
	A3*	US-4,923,817	05-08-1990	Mundt et al.	
	A4*	US-4,979,939	12-25-1990	Shiber	
	A5*	US-5,084,380	01-28-1992	Carney	
	A6*	US-5,180,366	01-19-1993	Woods	
	A7*	US-5,240,912	08-31-1993	Todaro	
	A8*	US-5,293,875	03-15-1994	Stone	
	A9*	US-5,449,665	09-12-1995	Sollevi et al.	
	A10*	US-5,476,764	12-19-1995	Bitensky	
	A11*	US-5,498,421	03-12-1996	Grinstaff et al.	
	A12*	US-5,588,960	12-31-1996	Edwards et al.	
	A13*	US-5,632,162	05-27-1997	Billy et al.	
	A14*	US-5,664,563	09-09-1997	Schroeder et al.	
	A15*	US-5,709,874	01-20-1998	Hanson et al.	
	A16*	US-5,731,326	03-24-1998	Hart et al.	
	A17*	US-5,756,492	05-26-1998	Buelow et al.	
	A18*	US-5,763,431	06-09-1998	Jackson	
	A19*	US-5,792,325	08-11-1998	Richardson, Jr.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B1	JP-53-81611	07-19-1978	Okazaki, K.		
	B2	JP-56-79957	06-30-1981	Sogo Seibutsu Igaku Kenkyusho		Abstr.
	B3	WO-94/22482-A1	10-13-1994	Biorelease Technologies, Inc.		
	B4	WO-95/35105-A1	12-28-1995	LTS Lohmann Therapie-Systeme GmbH & Co. KG		Abstr.
	B5	WO-98/08523-A1	03-05-1998	Messer Griesheim GmbH		Abstr.
	B6	WO-98/13058-A1	04-02-1998	The Trustees of Columbia University in the City of New York		

Examiner Signature	/Hope Robinson/	Date Considered	06/07/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	2	of	30	Attorney Docket Number	CNZ-006USRCE

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A20*	US-5,882,674	03-16-1999	Herrmann et al.	
	A21*	US-5,885,621	03-23-1999	Head et al.	
	A22*	US-5,914,316	06-22-1999	Brown et al.	
	A23*	US-5,985,307	11-16-1999	Hanson et al.	
	A24*	US-6,066,333	05-23-2000	Willis et al.	
	A25*	US-6,069,132	05-30-2000	Revanker	
	A26*	US-6,203,991	03-20-2001	Nabel et al.	
	A27*	US-6,251,418	06-26-2001	Ahern et al.	
	A28*	US-6,313,144	11-06-2001	McCullough et al.	
	A29*	US-6,316,403	11-13-2001	Pinsky et al.	
	A30*	US-6,406,716	06-18-2002	Caruso et al.	
	A31*	US-6,436,365	08-20-2002	Dinkelborg et al.	
	A32*	US-6,450,989	09-17-2002	Dubrul et al.	
	A33*	US-20020155166	10-24-2002	Choi et al.	
	A34*	US-20020169201	11-14-2002	Falchuk	
	A35*	US-20030009127	01-09-2003	Trescony et al.	
	A36*	US-6,508,784	01-21-2003	Shu	
	A37*	US-6,508,787	01-21-2003	Erbel et al.	
	A38*	US-20030039638	02-27-2003	Bach et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B7	JP-10-506388	06-23-1998			Abstr.
	B8	WO-99/47512-A1	09-23-1999	Celgene Corporation		
	B9	WO-99/49880-A1	10-07-1999	The Trustees of Columbia University in the City of New York		
	B10	WO-00/36113	06-22-2000	Sangstat Medical Corporation		
	B11	WO-00/61166	10-19-2000	Breonics, Inc.		
	B12	WO-02/09731-A1	02-07-2002	L'Air Liquide Sante (International)		Abstr.

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
-----------------------	-----------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	3	of	30	Attorney Docket Number	CNZ-006USRCE

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A39*	US-20030064114	04-03-2003	Motterlini et al.	
	A40*	US-20030068387	04-10-2003	Buelow et al.	
	A41*	US-20030219496	11-27-2003	Otterbein et al.	
	A42*	US-20030219497	11-27-2003	Otterbein et al.	
	A43*	US-20040005367	01-08-2004	Otterbein et al.	
	A44*	US-20040052866	03-18-2004	Otterbein et al.	
	A45*	US-20040067261	04-08-2004	Haas et al.	
	A46*	US-20040131703	07-08-2004	Bach et al.	
	A47*	US-20040197271	10-07-2004	Kunka et al.	
	A48*	US-20040228930	11-18-2004	Billiar et al.	
	A49*	US-20040258772	12-23-2004	Otterbein et al.	
	A50*	US-20050048133	03-03-2005	Pinsky et al.	
	A51*	US-20050215468	09-29-2005	Bar-Or et al.	
	A52*	US-20050250688	11-10-2005	Pinsky et al.	
	A53*	US-20060003922	01-05-2006	Bach et al.	
	A54*	US-7,045,140	05-16-2006	Motterlini et al.	
	A55*	US-7,238,469	07-03-2007	Bach et al.	
	A56*	US-20070202083	08-30-2007	Bach et al.	
	A57*	US-7,364,757	04-29-2008	Otterbein et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B13	FR-2816212-A1	05-10-2002	Air Liquide Sante (International)		Abstr.
	B14	WO-02/092075-A2	11-21-2002	Northwick Park Institute for Medical Research et al.		
	B15	WO-03/000114-A2	01-03-2003	Beth Israel Deaconess Medical Center et al.		
	B16	WO-04/004817-A1	01-15-2004	Ino Therapeutics GmbH		

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

PTO/SB/08a (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	5	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	Abidin et al., "The Combined Effect of Carbon Monoxide and Normobaric Hyperoxia on Animals," <i>Kosmicheskaya Biologiya i Aviakosmicheskaya Meditsina</i> , Vol. 6:63-67 (1978)	
	C2	Agarwal, Anupam et al., "Renal Response to Tissue Injury: Lessons from Heme Oxygenase-1 Gene Ablation and Expression," <i>J. Am. Soc. Nephrol.</i> , Vol. 11:965-973 (2000)	
	C3	Akagi, Reiko et al., "Fundamental Role of Heme Oxygenase in the Protection Against Ischemic Acute Renal Failure," <i>Jpn. J. Pharmacol.</i> , Vol. 88:127-132 (2002)	
	C4	Allred, Elizabeth N. et al., "Effects of Carbon Monoxide on Myocardial Ischemia," <i>Environmental Health Perspectives</i> , Vol. 91:89-132 (1991)	
	C5	American Cancer Society, "Colorectal Cancer Treatment: An Overview," retrieved online at <a href="http://www.cancer.org/docroot/NWS/content/NW_1_1x_Colorectal_cancer_treatment">http://www.cancer.org/docroot/NWS/content/NW_1_1x_Colorectal_cancer_treatment</a> (2000)	
	C6	American Thoracic Society, "Single-breath Carbon Monoxide Diffusing Capacity (Transfer Factor)," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 152:2185-2198 (1995)	
	C7	American Thoracic Society, "Single Breath Carbon Monoxide Diffusing Capacity (Transfer Factor), Recommendations for a Standard Technique," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 136 (5):1299-1307 (1987)	
	C8	Appel, James Z., III et al., "The Pig as a Source of Cardiac Xenografts," <i>J. Card. Surg.</i> , Vol. 16:345-356 (2001)	
	C9	Arcasoy, Murat O. et al., "Erythropoietin (EPO) Stimulates Angiogenesis In Vivo and Promotes Wound Healing," <i>Blood</i> , Vol. 98:822A-823A (2001)	
	C10	Arita, Seiji et al., "Prevention of Primary Islet Isograft Nonfunction in Mice with Pravastatin," <i>Transplantation</i> , Vol. 65(11):1429-1433 (1998)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	6	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C11	Arnush, Marc et al., "IL-1 Produced and Released Endogenously within Human Islets Inhibits $\beta$ Cell Function," <i>J. Clin. Invest.</i> , Vol. 102(3):516-526 (1998)	
	C12	Avihingsanon, Yingyos et al., "Expression of Protective Genes in Human Renal Allografts: A Regulatory Response to Injury Associated with Graft Rejection," <i>Transplantation</i> , Vol. 73(7):1079-1085 (2002)	
	C13	Bach, Fritz H. et al., "Accommodation of vascularized xenografts: Expression of 'protective genes' by donor endothelial cells in a host Th2 cytokine environment," <i>Nature Medicine</i> , Vol. 3(2):196-204 (1997)	
	C14	Bach, Fritz H., "Heme oxygenase-1 as a protective gene," <i>Wien Klin Wochenschr.</i> , Vol. 114(Suppl. 4):1-3 (2002)	
	C15	Baim, Donald S. et al., "Treatment of Coronary Stenoses and Occlusions with Coronary Angioplasty," <i>Harrison's Principles of Internal Medicine</i> , 13th Edition, McGraw-Hill, Inc., Kurt J. Isselbacher Eds., Vol. 1:986-987 (1994)	
	C16	Bathoorn, E. et al., "Anti-inflammatory effects of inhaled carbon monoxide in patients with COPD: a pilot study," <i>Eur. Respir. J.</i> , Vol. 30:1131-1137 (2007)	
	C17	Bathoorn, E. et al., "Effects of low dose inhaled carbon monoxide in patients with COPD," Thematic Poster Session, 349. Recent advances in the treatment of COPD and acute lung injury, Hall B2-9 - 12:50-14:40, pgs. 660s-663s (2006)	
	C18	Bentley, Michael J. et al., "Successful Cardiac Transplantation With Methanol or Carbon Monoxide-Poisoned Donors," <i>Ann. Thorac. Surg.</i> , Vol. 71:1194-1197 (2001)	
	C19	Berney, Thierry et al., "Islet cell transplantation: the future?" <i>Langenbeck's Arch. Surg.</i> , Vol. 385:373-378 (2000)	
	C20	Billiar, Timothy R., "The diverging roles of carbon monoxide and nitric oxide in resuscitated hemorrhagic shock," <i>Critical Care Medicine</i> , Vol. 27(12):2842-2843 (1999)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	7	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C21	Bracho, G.E., II, et al., "Carbon Monoxide Protects against Organ Injury in Hemorrhagic Shock/Resuscitation," <i>Journal of Surgical Research</i> , Vol. 107:267-338 (2002)	
	C22	Brouard, Sophie et al., "Carbon Monoxide generated by Heme Oxygenase-1 (HO-1) suppresses endothelial cell apoptosis via activation of the p38 mitogen activated protein kinase (MAPK) pathway," <i>Acta Haematologica</i> , Vol. 103(Suppl. 1):64, No. 254 (2000)	
	C23	Brouard, Sophie et al., "Carbon Monoxide Generated by Heme Oxygenase 1 Suppresses Endothelial Cell Apoptosis," <i>J. Exp. Med.</i> , Vol. 192(7):1015-1025 (2000)	
	C24	Brouard, Sophie et al., "Heme Oxygenase-1-derived Carbon Monoxide Requires the Activation of Transcription Factor NF-κB to Protect Endothelial Cells from Tumor Necrosis Factor-α-mediated Apoptosis," <i>The Journal of Biological Chemistry</i> , Vol. 277(20):17950-17961 (2002)	
	C25	Brouard, S. et al., "Molecular mechanism underlying the anti-apoptotic effect of Heme oxygenase-1 derived carbon monoxide," <i>Xenotransplantation</i> , Vol. 8(Suppl. 1):22 (2001)	
	C26	Brown, S.D. et al., "In vivo binding of carbon monoxide to cytochrome c oxidase in rat brain," <i>Journal of Applied Physiology</i> , Vol. 68(2):604-610 (1990)	
	C27	Calabrese, F. et al., "Carbon Monoxide (CO) Prevents Apoptotic Events Related to Ischemia/Reperfusion (IR) Injury in an hDAF Pig-to-Primate Xenotransplantation Model," <i>Xenotransplantation</i> , Vol. 10:488 (2003)	
	C28	Campbell, J. Argyll, "Cancer of Skin and Increase in Incidence of Primary Tumours of Lung in Mice Exposed to Dust Obtained from Tarred Roads," <i>The British Journal of Experimental Pathology</i> , Vol. 15(5):287-294 (1934)	
	C29	Campbell, J. Argyll, "Living at Very High Altitudes and Maintenance of Normal Health," <i>The Lancet</i> , Vol. 1:370-373 (1930)	
	C30	Campbell, J. Argyll, "The Effect of Carbon Monoxide and Other Agetns Upon the Rate of Tumour Growth," <i>J. Pathology &amp; Bacteriology</i> , Vol. 35:379-394 (1932)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	8	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C31	Cantrell, James M. et al., "Low-dose Carbon Monoxide Does Not Reduce Vasoconstriction in Isolated Rat Lungs," <i>Experimental Lung Research</i> , Vol. 22:21-32 (1996)	
	C32	Caplan, Michael S. et al., "Role of Asphyxia and Feeding in a Neonatal Rat Model of Necrotizing Enterocolitis," <i>Pediatric Pathology</i> , Vol. 14:1017-1028 (1994)	
	C33	Cardell, Lars-Olaf et al., "Bronchodilation <i>in vivo</i> by carbon monoxide, a cyclic GMP related messenger," <i>British Journal of Pharmacology</i> , Vol. 124:1065-1068 (1998)	
	C34	Carlsson, Per-Ola et al., "Measurements of Oxygen Tension in Native and Transplanted Rat Pancreatic Islets," <i>Diabetes</i> , Vol. 47:1027-1032 (1998)	
	C35	Carraway, M.S. et al., "Induction of ferritin and heme oxygenase-1 by endotoxin in the lung," <i>Am. J. Physiol. Lung Cell Mol. Physiol.</i> , Vol. 275:L583-L592 (1998)	
	C36	Cecil Textbook of Medicine (21st Ed.) Vol. 1:273-279, 357-372, 387-419, 425-427, 436-448, 466-475, 507-512, 1060-1074 (2000)	
	C37	Cecil Textbook of Medicine (21st Ed.) Vol. 2:1492-1499, 2042-2047, 2079-2081 (2000)	
	C38	Chapman, Jeffrey T. et al., "Carbon monoxide attenuates aeroallergen-induced inflammation in mice," <i>Am. J. Physiol. Lung Cell. Mol. Physiol.</i> , Vol. 281:L209-L216 (2001)	
	C39	Chapman, Jeff T. et al., "Exogenous Carbon Monoxide Attenuates Aeroallergen-induced Eosinophilic Inflammation in Mice," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 159(3):A218 (1999)	
	C40	Chapman, Jeffrey T. et al., "Exhaled Monoxides as a Pulmonary Function Test," <i>Clinics in Chest Medicine</i> , Vol. 22(4):817-836 (2001)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	9	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	C41	Chen, Yen-Chou et al., "Nitric Oxide and Prostaglandin E2 Participate in Lipopolysaccharide/Interferon-γ-Induced Heme Oxygenase 1 and Prevent RAW264.7 Macrophages from UV-Irradiation-Induced Cell Death," <i>Journal of Cellular Biochemistry</i> , Vol. 86:331-339 (2002)		
	C42	Chin, Beek Yoke et al., "Transcriptional regulation of the HO-1 gene in cultured macrophages exposed to model airborne particulate matter," <i>Am. J. Physiol. Lung Cell. Mol. Physiol.</i> , Vol. 284:L473-L480 (2003)		
	C43	Choi, Augustine M.K. et al., "Emerging Role of Carbon Monoxide in Physiologic and Pathophysiologic States," <i>Antioxidants &amp; Redox Signaling</i> , Vol. 4(2):227-228 (2002)		
	C44	Choi, Augustine M.K. et al., "Heme Oxygenase-1: Function, Regulation, and Implication of a Novel Stress-inducible Protein in Oxidant-induced Lung Injury," <i>Am. J. Respir. Cell Mol. Biol.</i> , Vol. 15:9-19 (1996)		
	C45	Choi, Augustine M.K., "Heme Oxygenase-1 Protects the Heart," <i>Circulation Research</i> , Vol. 89:105-107 (2001)		
	C46	Choi, Augustine M.K. et al., "Therapeutic Carbon Monoxide May be a Reality Soon," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 171:1318-1319 (2005)		
	C47	Christodoulides, Nick et al., "Vascular Smooth Muscle Cell Home Oxygenases Generate Guanylyl Cyclase-Stimulatory Carbon Monoxide," <i>Circulation</i> , Vol. 91:2306-2309 (1995)		
	C48	Clayton, Carolyn E. et al., "Inhaled carbon monoxide and hyperoxic lung injury in rats," <i>Am. J. Physiol. Cell Mol. Physiol.</i> , Vol. 281:L949-L957 (2001)		
	C49	ClinicalTrials.gov, "Carbon Monoxide to Prevent Lung Inflammation," retrieved online at <a href="http://clinicaltrials.gov/ct2/show?spons=%22National+Institutes+of+Health+Clinical+Center+(C+C)%22&amp;spons_ex=Y&amp;rank=8">http://clinicaltrials.gov/ct2/show?spons=%22National+Institutes+of+Health+Clinical+Center+(C+C)%22&amp;spons_ex=Y&amp;rank=8</a> (2007)		
	C50	ClinicalTrials.gov, "Modification of Chronic Inflammation by Inhaled Carbon Monoxide in Patients With Stable Chronic Obstructive Pulmonary Disease (COPD)," retrieved online at <a href="http://clinicaltrials.gov/ct2/show/NCT00122694?term=neutrophils&amp;rank=74">http://clinicaltrials.gov/ct2/show/NCT00122694?term=neutrophils&amp;rank=74</a> (2006)		

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	10	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C51	Corbett, John A. et al., "Nitric oxide mediates cytokine-induced inhibition of insulin secretion by human islets of Langerhans," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 90:1731-1735 (1993)	
	C52	Cozzi, E. et al., "Donor Preconditioning with Carbon Monoxide (CO) in Pig-to-Primate Xenotransplantation," <i>Xenotransplantation</i> , Vol. 10:528 (2003)	
	C53	Crapo, Robert O. et al., "Single-Breath Carbon Monoxide Diffusing Capacity," <i>Clinics in Chest Medicine</i> , Vol. 22(4):637-649 (2001)	
	C54	Czlonkowska, Anna et al., "Immune processes in the pathogenesis of Parkinson's disease - a potential role for microglia and nitric oxide," <i>Med. Sci. Monit.</i> , Vol. 8(8):RA165-177 (2002)	
	C55	Davidson, Jeffrey M. et al., "Inflammatory Modulation and Wound Repair," <i>The Journal of Investigative Dermatology</i> , pgs. xi-xii (2003)	
	C56	Deng, Xiaoying et al., "Carbon Monoxide Potentiates Cerulein-Induced Pancreatitis in Chronic Alcohol-Fed Rats," <i>Gastroenterology</i> , Vol. 124(4):A618-A619 (2003)	
	C57	Dioum, Elhadji M. et al., "NPAS2: A Gas-Responsive Transcription Factor," <i>Science</i> , Vol. 298:2385-2387 (2002)	
	C58	Dolinay, T. et al., "Can Inhalation Carbon Monoxide be Utilized as a Therapeutic Modality in Human Diseases?" <i>Breath Analysis for Clinical Diagnosis and Therapeutic Monitoring</i> , World Scientific, Anton Amann, Ed., pgs. 203-236 (2005)	
	C59	Dolinay, Tamás et al., "Inhaled Carbon Monoxide Confers Antiinflammatory Effects Against Ventilator-induced Lung Injury," <i>Am. J. Respir. Crit. Care Med.</i> , Vol. 170:613-620 (2004)	
	C60	Donnelly, Louise E. et al., "Expression of Heme Oxygenase in Human Airway Epithelial Cells," <i>Am. J. Respir. Cell Mol. Biol.</i> , Vol. 24:295-303 (2001)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
-----------------------	-----------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	11	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C61	Downard, Patrick J. et al., "Heme Oxygenase-Dependent Carbon Monoxide Production Is a Hepatic Adaptive Response to Sepsis," <i>Journal of Surgical Research</i> , Vol. 71:7-12 (1997)	
	C62	Dyck, E. Danielle et al., "Carbon Monoxide (CO) Attenuates Lipopolysaccharide (LPS)-Induced Cytokine Expression of IL-6," <i>Acta Haematologica</i> , Vol. 103(Suppl. 1):64 (2000)	
	C63	Ellenhorn, Matthew J. et al., "Carbon Monoxide," <i>Medical Toxicology, Diagnosis and Treatment of Human Poisoning</i> , Elsevier, Chpt. 34, pgs. 820-829 (1988)	
	C64	Farrugia, Gianrico et al., "Heme Oxygenase, Carbon Monoxide, and Interstitial Cells of Cajal," <i>Microsc. Res. Tech.</i> , Vol. 47:321-324 (1999)	
	C65	Favory, Raphaël et al., "Myocardial Dysfunction and Potential Cardiac Hypoxia in Rats Induced by Carbon Monoxide Inhalation," <i>Am. J. Respir. Crit. Care Med.</i> , Vol. 174:320-325 (2006)	
	C66	Friebe, Andreas et al., "YC-1 Potentiates Nitric Oxide- and Carbon Monoxide-Induced Cyclic GMP Effects in Human Platelets," <i>Molecular Pharmacology</i> , Vol. 54:962-967 (1998)	
	C67	Fujii, Hiromi et al., "Protective role of heme oxygenase-1 in the intestinal tissue injury in an experimental model of sepsis," <i>Crit. Care Med.</i> , Vol. 31(3):893-902 (2003)	
	C68	Fujita, Tomoyuki et al., "Paradoxical rescue from ischemic lung injury by inhaled carbon monoxide drive by derepression of fibrinolysis," <i>Nature Medicine</i> , Vol. 7(5):598-604 (2001)	
	C69	Gaine, Sean P. et al., "Induction of Heme Oxygenase-1 with Hemoglobin Depresses Vasoreactivity in Rat Aorta," <i>Journal of Vascular Research</i> , Vol. 36:114-119 (1999)	
	C70	Goldberg, Mark A. et al., "Similarities between the Oxygen-sensing Mechanisms Regulating the Expression of Vascular Endothelial Growth Factor and Erythropoietin," <i>The Journal of Biological Chemistry</i> , Vol. 269(6):4355-4359 (1994)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
-----------------------	-----------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	12	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C71	Goto, Jun et al., "Heme Oxygenase-1 Reduces Murine Monocrotaline-Induced Pulmonary Inflammatory Responses and Resultant Right Ventricular Overload," <i>Antioxidants &amp; Redox Signaling</i> , Vol. 4(4):563-568 (2002)	
	C72	Grau, Cai et al., "Effect of Carbon Monoxide Breathing on Hypoxia and Radiation Response in the SCCVII Tumor <i>In Vivo</i> ," <i>Int. J. Radiation Oncology Biol. Phys.</i> , Vol. 29(3):449-454 (1994)	
	C73	Grau, Cai et al., "Influence of Carboxyhemoglobin Level on Tumor Growth, Blood Flow, and Radiation Response in an Experimental Model," <i>Int. J. Radiation Oncology Biol. Phys.</i> , Vol. 22:421-424 (1992)	
	C74	Günther, Lukas et al., "Carbon Monoxide Protects Pancreatic $\beta$ -Cells From Apoptosis and Improves Islet Function/Survival After Transplantation," <i>Diabetes</i> , Vol. 51:994-999 (2002)	
	C75	Guo, Xin et al., "Modulation of heme oxygenase in tissue injury and its implication in protection against gastrointestinal diseases," <i>Life Sciences</i> , Vol. 69:3113-3119 (2001)	
	C76	Hantson, Philippe et al., "Organ Transplantation From Victims of Carbon Monoxide Poisoning," <i>Annals of Emergency Medicine</i> , Vol. 27(5):673-674 (1996)	
	C77	Harmey, Judith H. et al., "Vascular endothelial growth factor (VEGF), a survival factor for tumour cells: implications for anti-angiogenic therapy," <i>BioEssays</i> , Vol. 24:280-283 (2002)	
	C78	Hartsfield, Cynthia L., "Cross Talk Between Carbon Monoxide and Nitric Acid," <i>Antioxidants &amp; Redox Signaling</i> , Vol. 4(2):301-307 (2002)	
	C79	Hartsfield, Cynthia L. et al., "Differential signaling pathways of HO-1 gene expression in pulmonary and systemic vascular cells," <i>Am. J. Physiol.</i> , Vol. 277(6 pt. 1):L1133-L1141 (1999)	
	C80	Hartsfield, Cynthia L. et al., "Mitogen activated protein kinase (MAPK) is modulated by both endogenous and exogenous carbon monoxide," <i>The FASEB Journal</i> , Vol. 12(4):A187 (1998)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	13	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C81	Hartsfield, Cynthia L. et al., "Regulation of heme oxygenase-1 gene expression in vascular smooth muscle cells by nitric oxide," <i>Am. J. Physiol. Lung Cell Mol. Physiol.</i> , Vol. 273:L980-L988 (1997)	
	C82	Hashiba, T. et al., "Adenovirus-mediated transfer of heme oxygenase-1 cDNA attenuates severe lung injury induced by the influenza virus in mice," <i>Gene Therapy</i> , Vol. 8:1499-1507 (2001)	
	C83	Hayes, Harry Jr., "A Review of Modern Concepts of Healing of Cutaneous Wounds," <i>J. Dermatol. Surg. Oncol.</i> , Vol. 3:188-193 (1977)	
	C84	Hébert, Marie-Josée et al., "Transplantation of Kidneys from a Donor with Carbon Monoxide Poisoning," <i>The New England Journal of Medicine</i> , Vol. 326(23):1571 (1992)	
	C85	Hisada, Takeshi et al., "Involvement of haemoxygenase-1 in oxone-induced airway inflammation and hyperresponsiveness," <i>European Journal of Pharmacology</i> , Vol. 399:229-234 (2000)	
	C86	Horváth, I. et al., "Haemoxygenase-1 induction and exhaled markers of oxidative stress in lung disease," summary of the ERS Research Seminar in Budapest, Hungary, September, 1999," <i>European Respiratory Journal</i> , Vol. 18:420-430 (2001)	
	C87	Huizinga, Jan D., "Physiology and Pathophysiology of the Interstitial Cell of Cajal: From Bench to Bedside II. Gastric motility: lessons from mutant mice on slow waves and innervation," <i>Am. J. Physiol. Gastrointest. Liver Physiol.</i> , Vol. 281:G1129-G1134 (2001)	
	C88	Iberer, Florian et al., "Cardiac Allograft Harvesting after Carbon Monoxide Poisoning. Report on a Successful Orthotopic Heart Transplantation," <i>J. Heart Lung Transplant</i> , Vol. 12:499-500 (1993)	
	C89	Johnson, J.I. et al., "Relationships between drug activity in NCI preclinical in vitro and in vivo models and early clinical trials," <i>British Journal of Cancer</i> , Vol. 84(10):1424-1431 (2001)	
	C90	Joško, Jadwiga et al., "Vascular endothelial growth factor (VEGF) and its effect on angiogenesis," <i>Med. Sci. Monit.</i> , Vol. 6(5):1047-1052 (2000)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
-----------------------	-----------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/511,612-Conf. #4076		
		Filing Date	August 5, 2005		
		First Named Inventor	Fritz H. BACH		
		Art Unit	1652		
		Examiner Name	H. A. Robinson		
Sheet	14	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C91	Katori, Masamichi et al., "Heme Oxygenase-1 System in Organ Transplantation," <i>Transplantation</i> , Vol. 74:905-912 (2002)	
	C92	Kaufman, Dixon B. et al., "Differential Roles of Mac-1 <sup>+</sup> Cells, and CD4 <sup>+</sup> and CD8 <sup>+</sup> T Lymphocytes in Primary Nonfunction and Classic Rejection of Islet Allografts," <i>J. Exp. Med.</i> , Vol. 172:291-302 (1990)	
	C93	Koerner, Michael M. et al., "Extended Donor Criteria: Use of Cardiac Allografts after Carbon Monoxide Poisoning," <i>Transplantation</i> , Vol. 63(9):1358-1360 (1997)	
	C94	Kozma, Fruzsina et al., "Role of carbon monoxide in heme-induced vasodilation," <i>European Journal of Pharmacology</i> , Vol. 323:R1-R2 (1997)	
	C95	Krause, K. et al., "Recombinant human erythropoietin and VEGF have equal angiogenic potency: investigation in a novel in vitro assay of human vascular tissue," <i>European Heart Journal</i> , Vol. 22:154 (2001)	
	C96	Kyokane, Takanori et al., "Carbon Monoxide From Heme Carabolism Protects Against Hepatobiliary Dysfunction in Endotoxin-Treated Rat Liver," <i>Gastroenterology</i> , Vol. 120:1227-1240 (2001)	
	C97	Lacy, Paul E. et al., "Transplantation of Pancreatic Islets," <i>Ann. Rev. Immunol.</i> , Vol. 2:183-198 (1984)	
	C98	Lee et al., "Intestinal Motility and Absorption in Acute Carbon Monoxide Poisoning," <i>The Seoul Journal of Medicine</i> , Vol. 15(2):95-105 (1974)	
	C99	Lee, Patty J. et al., "Regulation of Heme Oxygenase-1 Expression In Vivo and In Vitro in Hyperoxic Lung Injury," <i>Am. J. Respir. Cell Mol. Biol.</i> , Vol. 14:556-568 (1996)	
	C100	Lefer, David J. et al., "A Comparison of Vascular Biological Actions of Carbon Monoxide and Nitric Oxide," <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , Vol. 15(9):617-622 (1993)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
-----------------------	-----------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/086 (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	15	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C101	Leikin, Jerrold B. et al., "The Toxic Patient as a Potential Organ Donor," <i>Am. J. Emerg. Med.</i> , Vol. 12:151-154 (1994)	
	C102	Li, Li et al., "Protection against ozone-induced pulmonary inflammation and cell death by endotoxin pretreatment in mice: Role of HO-1," <i>Inhalation Toxicology</i> , Vol. 12:1225-1238 (2000)	
	C103	Libby, Peter et al., "Chronic Rejection," <i>Immunity</i> , Vol. 14:387-397 (2001)	
	C104	Liu, Yuxiang et al., "Carbon Monoxide and Nitric Oxide Suppress the Hypoxic Induction of Vascular Endothelial Growth Factor Gene via the 5' Enhancer," <i>The Journal of Biological Chemistry</i> , Vol. 273(24):15257-15262 (1998)	
	C105	Madhavan, Malathy et al., "Serum bilirubin distribution and its relation to cardiovascular risk in children and young adults," <i>Atherosclerosis</i> , Vol. 131:107-113 (1997)	
	C106	Mandrup-Poulsen, Thomas et al., "Human Tumor Necrosis Factor Potentiates Human Interleukin 1-Mediated Rat Pancreatic $\beta$ -Cell Cytotoxicity," <i>The Journal of Immunology</i> , Vol. 139(12):4077-4082 (1987)	
	C107	Mansouri, Ali et al., "Alteration of Platelet Aggregation by Cigarette Smoke and Carbon Monoxide," <i>Thrombosis and Haemostasis</i> , Vol. 48(3):286-288 (1982)	
	C108	Mayer, Michael, "Association of Serum Bilirubin Concentration with Risk of Coronary Artery Disease," <i>Clinical Chemistry</i> , Vol. 46(11):1723-1727 (2000)	
	C109	Maxwell, L.C. et al., "Studies in Cancer Chemotherapy XI. The Effect of CO, HCN, and Pituitrin Upon Tumor Growth," <i>The Journal of Pharmacology and Experimental Therapeutics</i> , Vol. 49:270-282 (1933)	
	C110	Mayr, Florian B. et al., "Effects of Carbon Monoxide Inhalation during Experimental Endotoxemia in Humans," <i>Am. J. Respir. Crit. Care Med.</i> , Vol. 171:354-360 (2005)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	16	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	C111	Mazzola, S. et al., "Carbon monoxide pretreatment prevents respiratory derangement and ameliorates hyperacute endotoxic shock in pigs," <i>The FASEB Journal</i> , Vol. 19(14):1-18 (2005)		
	C112	Meilin, S. et al., "Effects of carbon monoxide on the brain may be mediated by nitric oxide," <i>J. Appl. Physiol.</i> , Vol. 81(3):1078-1083 (1996)		
	C113	Melo, Luis G. et al., "Gene Therapy Strategy for Long-Term Myocardial Protection Using Adeno-Associated Virus-Mediated Delivery of Heme Oxygenase Gene," <i>Circulation</i> , Vol. 105:602-607 (2002)		
	C114	Miller, Steven M. et al., "Heme Oxygenase 2 Is Present in Interstitial Cell Networks of the Mouse Small Intestine," <i>Gastroenterology</i> , Vol. 114:239-244 (1998)		
	C115	Minamino, Tohru et al., "Targeted expression of heme oxygenase-1 prevents the pulmonary inflammatory and vascular responses to hypoxia," <i>PNAS</i> , Vol. 98(15):8798-8803 (2001)		
	C116	Moore, Beverley A. et al., "Carbon Monoxide Suppresses the Development of Ileus Associated with Surgical Manipulation of the Small Intestine," <i>Gastroenterology</i> , Vol. 122:A61-A62 (2002)		
	C117	Moore, Beverley A. et al., "Inhaled Carbon Monoxide Suppresses the Development of Postoperative Ileus in the Murine Small Intestine," <i>Gastroenterology</i> , Vol. 124:377-391 (2003)		
	C118	Moore, Beverley A. et al., "Carbon Monoxide Protects against Intestinal Dysmotility Associated with Small Bowel Transplantation," <i>Gastroenterology</i> , Vol. 122:A38 (2002)		
	C119	Moore, Beverley A. et al., "Pre-treatment with Low Concentration of Carbon Monoxide (250 TO 75 ppm) for 3 hr. prior to Laparotomy Protects Against Postoperative Ileus," <i>Gastroenterology</i> , Vol. 124(4, Suppl. 1):A798 (2003)		
	C120	Mori, Yoshio et al., "Evaluation of Hypothermic Heart Preservation with University of Wisconsin Solution in Heterotopically and Orthotopically Transplanted Canine Hearts," <i>J. Heart Lung Transplant</i> , Vol. 13:688-695 (1994)		

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010



ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	17	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C121	Morita, Shunsuke, "Cardiovascular disease and heme oxygenase carbon monoxide system," <i>Igaku no Ayumi</i> (Advances in Medicine), Vol. 197(9):737-741 (2001)	
	C122	Morse, Danielle et al., "Carbon Monoxide-dependent signaling," <i>Crit. Care Med.</i> , Vol. 30(1):S12-S17 (2002)	
	C123	Morse, Danielle et al., "Heme Oxygenase-1, From Bench to Bedside," <i>Am. J. Respir. Crit. Care Med.</i> , Vol. 172:660-670 (2005)	
	C124	Morse, Danielle et al., "Suppression of Inflammatory Cytokine Production by Carbon Monoxide Involves the JNK Pathway and AP-1," <i>The Journal of Biological Chemistry</i> , Vol. 278(39):36993-36998 (2003)	
	C125	Motterlini, Roberto et al., "Carbon Monoxide-Releasing Molecules, Characterization of Biochemical and Vascular Activities," <i>Circ. Res.</i> , Vol. 90:e17-e24 (2002)	
	C126	Myers, Robert P. et al., "Cirrhotic Cardiomyopathy and Liver Transplantation," <i>Liver Transplantation</i> , Vol. 6(4, Suppl. 1):S44-S52 (2000)	
	C127	Nachar, Raúl A. et al., "Low-Dose Inhaled Carbon Monoxide Reduces Pulmonary Vascular Resistance During Acute Hypoxemia in Adult Sheep," <i>High Altitude Medicine &amp; Biology</i> , Vol. 2(3):377-386 (2001)	
	C128	Nagata, M. et al., "Destruction of Islet Isografts by Severe Nonspecific Inflammation," <i>Transplantation Proceedings</i> , Vol. 22(2):855-856 (1990)	
	C129	Nakagami, Tatsuyoshi et al., "A beneficial role of bile pigments as an endogenous tissue protector: Anti-complement effects of biliverdin and conjugated bilirubin," <i>Biochimica et Biophysica Acta</i> , Vol. 1158:189-193 (1993)	
	C130	Nakao, Atsunori et al., "A Single Intraperitoneal Dose of Carbon Monoxide-Saturated Ringer's Lactate Solution Ameliorates Postoperative Ileus in Mice," <i>The Journal of Pharmacology and Experimental Therapeutics</i> , Vol. 319(3):1265-1275 (2006)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/511,612-Conf. #4076		
		Filing Date	August 5, 2005		
		First Named Inventor	Fritz H. BACH		
		Art Unit	1652		
		Examiner Name	H. A. Robinson		
Sheet	18	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C131	Nakao, A. et al., "Immunomodulatory effects of inhaled carbon monoxide on rat syngeneic small bowel graft motility," <i>Gut</i> , Vol. 52:1278-1285 (2003)	
	C132	Nakao, Atsunori et al., "Protective effect of carbon monoxide inhalation for cold-preserved small intestinal grafts," <i>Surgery</i> , Vol. 134:285-292 (2003)	
	C133	Nath, Karl A. et al., "Heme protein-induced chronic renal inflammation: Suppressive effect of induced heme oxygenase-1," <i>Kidney International</i> , Vol. 59:106-117 (2001)	
	C134	Ning, Wen et al., "TGF- $\beta$ 1 stimulates HO-1 via the p38 mitogen-activated protein kinase in A549 pulmonary epithelial cells," <i>Am. J. Physiol. Lung Cell Mol. Physiol.</i> , Vol. 283:L1094-L1102 (2002)	
	C135	Novotný, Ladislav et al., "Inverse Relationship Between Serum Bilirubin and Atherosclerosis in Men: A Meta-Analysis of Published Studies," <i>Exp. Biol. Med.</i> , Vol. 228:566-571 (2003)	
	C136	Omaye, Stanley T., "Metabolic modulation of carbon monoxide toxicity," <i>Toxicology</i> , Vol. 180:139-150 (2002)	
	C137	Otani, Kazuhiro et al., "Administration of Bacterial Lipopolysaccharide to Rats Induces Heme Oxygenase-1 and Formation of Antioxidant Bilirubin in the Intestinal Mucosa," <i>Digestive Diseases and Sciences</i> , Vol. 45(12):2313-2319 (2000)	
	C138	Otterbein, Leo E. et al., "Carbon Monoxide, a Gaseous Molecule with Anti-Inflammatory Properties," <i>Disease Markers in Exhaled Breath</i> , Claude Lenfant, Ed., Marcel Dekker, Inc., Vol. 170, Chpt. 6, pgs. 133-156 (2003)	
	C139	Otterbein, Leo E. et al., "Carbon monoxide has anti-inflammatory effects involving the mitogen-activated protein kinase pathway," <i>Nature Medicine</i> , Vol. 6(4):422-428 (2000)	
	C140	Otterbein, Leo E. et al., "Carbon monoxide inhibits TNF $\alpha$ -induced apoptosis and cell growth in mouse fibroblasts," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 159(3):A285 (1999)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	19	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	C141	Otterbein, Leo E., "Carbon Monoxide: Innovative Anti-inflammatory Properties of an Age-Old Gas Molecule," <i>Antioxidants &amp; Redox Signaling</i> , Vol. 4(2):309-319 (2002)		
	C142	Otterbein, Leo E. et al., "Carbon Monoxide Mediates Anti-inflammatory Effects Via the P38 Mitogen Activated Protein Kinase Pathway," <i>Acta Haematologica</i> , Vol. 103(Suppl. 1) No. 256 (2000)		
	C143	Otterbein, Leo E. et al., "Carbon Monoxide Modulates Lipopolysaccharide (LPS)-Induced Inflammatory Responses In Vivo and In Vitro," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 159(3):A481 (1999)		
	C144	Otterbein, Leo E. et al., "Carbon Monoxide Protects Against Oxidant-Induced Lung Injury in Mice Via the p38 Mitogen Activated Protein Kinase Pathway," <i>Acta Haematologica</i> , Vol. 103(Suppl. 1) No. 332 (2000)		
	C145	Otterbein, Leo E. et al., "Carbon monoxide provides protection against hyperoxic lung injury," <i>Am. J. Physiol. Lung Cell. Mol. Physiol.</i> , Vol. 276:L688-L694 (1999)		
	C146	Otterbein, Leo E. et al., "Carbon Monoxide Provides Protection Against Hyperoxic Lung Injury in Rats," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 159(3):A218 (1999)		
	C147	Otterbein, Leo E. et al., "Carbon monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury," <i>Nature Medicine</i> , Vol. 9(2):183-190 (2003)		
	C148	Otterbein, Leo E. et al., "Exogenous administration of heme oxygenase-1 by gene transfer provides protection against hyperoxia-induced lung injury," <i>The Journal of Clinical Investigation</i> , Vol. 103(7):1047-1054 (1999)		
	C149	Otterbein, Leo E. et al., "Heme oxygenase-1: unleashing the protective properties of heme," <i>Trends in Immunology</i> , Vol. 24(8):449-455 (2003)		
	C150	Otterbein, Leo E. et al., "Heme oxygenase: colors of defense against cellular stress," <i>Am. J. Physiol. Lung Cell. Mol. Physiol.</i> , Vol. 279:L1029-L1037 (2000)		

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	20	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C151	Otterbein, Leo et al., "Hemoglobin Provides Protection against Lethal Endotoxemia in Rats: The Role of Heme Oxygenase-1," <i>Am. J. Respir. Cell Mol. Biol.</i> , Vol. 13:595-601 (1995)	
	C152	Otterbein, Leo et al., "Mechanism of hemoglobin-induced protection against endotoxemia in rats: a ferritin-independent pathway," <i>Am. J. Physiol. Lung Cell. Mol. Physiol.</i> , Vol. 272:L268-L275 (1997)	
	C153	Otterbein, Leo E. et al., "Protective Effects of Heme Oxygenase-1 in Acute Lung Injury," <i>Chest</i> , Vol. 116:61S-63S (1999)	
	C154	Otterbein, Leo E. et al., "Carbon monoxide at low concentrations induces growth arrest and modulates tumor growth in mice," <i>Exp. Biol. Med.</i> , Vol. 228(5):633 (2003)	
	C155	Otterbein, Leo E., "Anti-Inflammatory Effects of Carbon Monoxide in the Lung," CRISP Grant Number 5R01HL071797-05 (2003)	
	C156	Otterbein, Leo E., "Carbon Monoxide to Prevent Circulatory Collapse," CRISP Grant No. 1R01HL076167-01 (2004)	
	C157	Otterbein, Leo E., "Carbon Monoxide to Prevent Circulatory Collapse," CRISP Grant No. 7R01HL076167-02 (2004)	
	C158	Otterbein, Leo E., "Anti-Inflammatory Effects of Carbon Monoxide in the Lung," CRISP Grant No. 5R01HL071797-04 (2005)	
	C159	Otterbein, Leo E., "Anti-Inflammatory Effects of Carbon Monoxide in the Lung," CRISP Grant No. 7R01HL071797-03 (2004)	
	C160	Otterbein, Leo E., "Anti-Inflammatory Effects of Carbon Monoxide in the Lung," CRISP Grant No. 5R01HL071797-02 (2004)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	21	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C161	Otterbein, Leo E., "Carbon Monoxide to Prevent Circulatory Collapse," CRISP Grant No. 5R01HL076167-04 (2006)	
	C162	Otterbein, Leo E., "Anti-Inflammatory Effects of Carbon Monoxide in the Lung," CRISP Grant No. 1R01HL071797-01A1 (2003)	
	C163	Otterbein, Leo E., "Anti-Inflammatory Effects of Carbon Monoxide in the Lung," CRISP Grant No. 5R01HL071797-05 (2006)	
	C164	Otterbein, Leo E., "Carbon Monoxide to Prevent Circulatory Collapse," CRISP Grant No. 5R01HL076167-03 (2005)	
	C165	Otterbein, Leo E., "Carbon Monoxide to Prevent Circulatory Collapse," CRISP Grant No. 5R01HL076167-05 (2007)	
	C166	Pannen, Benedikt H.J. et al., "Protective Role of Endogenous Carbon Monoxide in Hepatic Microcirculatory Dysfunction after Hemorrhagic Shock in Rats," <i>J. Clin. Invest.</i> , Vol. 102(6):1220-1228 (1998)	
	C167	Paredi, P. et al., "Increased carbon monoxide in exhaled air of cystic fibrosis patients," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 159(3):A218 (1999)	
	C168	Peek, Giles J. et al., "Extracorporeal Membrane Oxygenation for Adult Respiratory Failure," <i>Chest</i> , Vol. 112(3):759-764 (1997)	
	C169	Petrache, Irina et al., "Heme oxygenase-1 inhibits TNF- $\alpha$ -induced apoptosis in cultured fibroblasts," <i>Am. J. Physiol. Lung Cell. Mol. Physiol.</i> , Vol. 278:L312-L319 (2000)	
	C170	Piantadosi, C.A. et al., "Production of Hydroxyl Radical in the Hippocampus After CO Hypoxia or Hypoxic Hypoxia in the Rat," <i>Free Radical Biology &amp; Medicine</i> , Vol. 22(4):725-732 (1997)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	22	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C171	Pileggi, Antonello et al., "Heme Oxygenase-1 Induction in Islet Cells Results in Protection From Apoptosis and Improved In Vivo Function After Transplantation," <i>Diabetes</i> , Vol. 50:1983-1991 (2001)	
	C172	Poss, Kenneth D. et al., "Heme oxygenase 1 is required for mammalian iron reutilization," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94:10919-10924 (1997)	
	C173	Poss, Kenneth D. et al., "Reduced stress defense in heme oxygenase 1-deficient cells," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 94:10925-10930 (1997)	
	C174	Potter, Huntington et al., "The inflammation-induced pathological chaperones ACT and apo-E are necessary catalysts of Alzheimer amyloid formation," <i>Neurobiology</i> , Vol. 22:923-930 (2001)	
	C175	Pozzoli, G. et al., "Carbon Monoxide as a Novel Neuroendocrine Modulator: Inhibition of Stimulated Corticotropin-Releasing Hormone Release from Acute Rat Hypothalamic Explants," <i>Endocrinology</i> , Vol. 135(5):2314-2317 (1994)	
	C176	Rabinovitch, Alex et al., "Transfection of Human Pancreatic Islets With an Anti-Apoptotic Gene ( <i>bcl-2</i> ) Protects $\beta$ -Cells From Cytokine-Induced Destruction," <i>Diabetes</i> , Vol. 48:1223-1229 (1999)	
	C177	Raman, Kathleen G. et al., "Inhaled carbon monoxide inhibits intimal hyperplasia and provides added benefit with nitric oxide," <i>J. Vasc. Surg.</i> , Vol. 44:151-158 (2006)	
	C178	Ramlawi, Basel et al., "Inhaled Carbon Monoxide Prevents Graft-Induced Intimal Hyperplasia in Swine," <i>Journal of Surgical Research</i> , Vol. 138:121-127 (2007)	
	C179	Rensing, Hauke et al., "Differential activation pattern of redox-sensitive transcription factors and stress-inducible dilator systems heme oxygenase-1 and inducible nitric oxide synthase in hemorrhagic and endotoxemic shock," <i>Crit. Care Med.</i> , Vol. 29(10):1962-1971 (2001)	
	C180	Ringel, S.P. et al., "Carbon Monoxide-induced Parkinsonism," <i>Journal of the neurological Sciences</i> , Vol. 16:245-251 (1972)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	23	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C181	Roberts, James R. et al., "Successful Heart Transplantation From a Victim of Carbon Monoxide Poisoning," <i>Annals of Emergency Medicine</i> , Vol. 26(5):652-655 (1995)	
	C182	Rücker, Martin et al., "Reduction of inflammatory response in composite flap transfer by local stress conditioning-induced heat-shock protein 32," <i>Surgery</i> , Vol. 129:292-301 (2001)	
	C183	Ryter, Stefan W. et al., "Heme Oxygenase-1/Carbon Monoxide From Basic Science to Therapeutic Applications," <i>Physiol. Rev.</i> , Vol. 86:583-650 (2006)	
	C184	Ryter, Stefan W. et al., "Heme oxygenase/carbon monoxide signaling pathways: Regulation and functional significance," <i>Molecular and Cellular Biochemistry</i> , Vol. 234/235:249-263 (2002)	
	C185	Ryter, Stefan W. et al., "Heme Oxygenase-1: Molecular Mechanisms of Gene Expression in Oxygen-Related Stress," <i>Antioxidants &amp; Redox Signaling</i> , Vol. 4(4):625-632 (2002)	
	C186	Ryter, Stefan W. et al., "Regulation of endothelial heme oxygenase activity during hypoxia is dependent on chelatable iron," <i>Am. J. Physiol. Heart Circ. Physiol.</i> , Vol. 279:H2889-H2897 (2000)	
	C187	Ryter, Stefan et al., "Mitogen activated protein kinase (MAPK) pathway regulates heme oxygenase-1 gene expression by hypoxia in vascular cells," <i>Exp. Biol. Med.</i> , Vol. 228(5):607 (2003)	
	C188	Ryter, Stefan W. et al., "Therapeutic applications of carbon monoxide in lung disease," <i>Current Opinion in Pharmacology</i> , Vol. 6:257-262 (2006)	
	C189	Sarady, Judit K. et al., "Carbon Monoxide Modulates Endotoxin-Induced Production of Granulocyte Macrophage Colony-Stimulating Factor in Macrophages," <i>Am. J. Respir. Cell Mol. Biol.</i> , Vol. 27:739-745 (2002)	
	C190	Sarady, Judit K. et al., "Cytoprotection by heme oxygenase/CO in the lung," <i>Disease Markers in Exhaled Breath, Basic Mechanisms and Clinical Applications</i> , Nandor Marczin, Ed., IOS Press, pgs. 73-78 (2002)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	24	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C191	Sasidhar, Madhu et al., "Exogenous Carbon Monoxide Attenuates Mitogen Activated Protein Kinase (MAPK) Activation in Rat Pulmonary Artery Endothelial Cells Exposed to Hypoxia," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 159(3):A352 (1999)	
	C192	Sass, Gabriele et al., "Heme Oxygenase-1 and Its Reaction Product, Carbon Monoxide, Prevent Inflammation-Related Apoptotic Liver Damage in Mice," <i>Hepatology</i> , Vol. 38:909-918 (2003)	
	C193	Sato, K. et al., "Heme Oxygenase-1 or Carbon Monoxide Prevents the Inflammatory Response Associated with Xenograft Rejection," <i>Acta Haematologica</i> , Vol. 103(Suppl. 1) No. 345 (2000)	
	C194	Sato, Koichiro et al., "Carbon monoxide can fully substitute Heme Oxygenase-1 in suppressing the rejection of mouse to rat cardiac transplants," <i>Acta Haematologica</i> , Vol. 103(Suppl. 1) No. 348 (2000)	
	C195	Sato, Koichiro et al., "Carbon Monoxide Generated by Heme Oxygenase-1 Suppresses the Rejection of Mouse-to-Rat Cardiac Transplants," <i>The Journal of Immunology</i> , Vol. 166:4185-4194 (2001)	
	C196	Schipper, H.M. et al., "Expression of Heme Oxygenase-1 in the Senescent and Alzheimer-diseased Brain," <i>Ann. Neurol.</i> , Vol. 37:758-768 (1995)	
	C197	Sethi, Jigme E. et al., "Differential Modulation by Exogenous Carbon Monoxide of TNF- $\alpha$ Stimulated Mitogen-Activated Protein Kinases in Rat Pulmonary Artery Endothelial Cells," <i>Antioxidants &amp; Redox Signaling</i> , Vol. 4(2):241-248 (2002)	
	C198	Seyfried, S. et al., "HO-1 Induction protects mice from immune-mediated liver injury," <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , Vol. 367:R80 (2003)	
	C199	Shapiro, A.M. James et al., "Islet Transplantation in Seven Patients with Type 1 Diabetes Mellitus Using a Glucocorticoid-Free Immunosuppressive Regimen," <i>The New England Journal of Medicine</i> , Vol. 343(4):230-238 (2000)	
	C200	Shennib, Hani et al., "Successful Transplantation of a Lung Allograft from a Carbon Monoxide-poisoning Victim," <i>J. Heart Lung Transplant</i> , Vol. 11:68-71 (1992)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.



ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	25	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C201	Singhal, Aneesh B. et al., "Effects of Normobaric Hyperoxia in a Rat Model of Focal Cerebral Ischemia-Reperfusion," <i>Journal of Cerebral Blood Flow &amp; Metabolism</i> , Vol. 22:861-868 (2002)	
	C202	Siow, Richard C.W. et al., "Heme oxygenase-carbon monoxide signalling pathway in atherosclerosis: anti-atherogenic actions of bilirubin and carbon monoxide," <i>Cardiovascular Research</i> , Vol. 41:385-394 (1999)	
	C203	Slebos, Dirk-Jan et al., "Heme oxygenase-1 and carbon monoxide in pulmonary medicine," <i>Respiratory Research</i> , Vol. 4(7):1-13 (2003)	
	C204	Smith, Julian A. et al., "Successful Heart Transplantation with Cardiac Allografts Exposed to Carbon Monoxide Poisoning," <i>J. Heart Lung Transplant</i> , Vol. 11:698-700 (1992)	
	C205	Soares, M.P. et al., "Expression of heme oxygenase-1 can determine cardiac xenograft survival," <i>Nature Medicine</i> , Vol. 4(9):1073-1077 (1998)	
	C206	Soares, Miguel P. et al., "Heme oxygenase-1, a protective gene that prevents the rejection of transplanted organs," <i>Immunological Reviews</i> , Vol. 184:275-285 (2001)	
	C207	Soares, Miguel P. et al., "Heme Oxygenase-1 and/or Carbon Monoxide can Promote Organ Graft Survival," <i>Disease Markers in Exhaled Breath</i> , N. Marczin and M.H. Yacoub, Eds., IOS Press, pgs. 267-273 (2002)	
	C208	Soares, Miguel P. et al., "Modulation of Endothelial Cell Apoptosis by Heme Oxygenase-1-Derived Carbon Monoxide," <i>Antioxidants &amp; Redox Signaling</i> , Vol. 4(2):321-329 (2002)	
	C209	Song, Ruiping et al., "Carbon Monoxide Induces Cytoprotection in Rat Orthotopic Lung Transplantation via Anti-Inflammatory and Anti-Apoptotic Effects," <i>American Journal of Pathology</i> , Vol. 163(1):231-242 (2003)	
	C210	Song, Ruiping et al., "Carbon Monoxide Inhibits Human Airway Smooth Muscle Cell Proliferation via Mitogen-Activated Protein Kinase Pathway," <i>Am. J. Respir. Cell Mol. Biol.</i> , Vol. 27:603-610 (2002)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	26	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C211	Song, Ruiping et al., "Regulation of IL-1 $\beta$ -induced GM-CSF production in human airway smooth muscle cells by carbon monoxide," <i>Am. J. Physiol. Lung Cell Mol. Physiol.</i> , Vol. 284:L50-L56 (2003)	
	C212	Stewart, Richard D. et al., "The Effect of Carbon Monoxide on Humans," <i>Journal of Occupational Medicine</i> , Vol. 18(5):304-309 (1976)	
	C213	Stewart, Richard D., "The Effects of Low Concentrations of Carbon Monoxide in Man," <i>Scandinavian Journal of Respiratory Diseases Suppl.</i> , Vol. 91:56-62 (1974)	
	C214	Stocker, Roland et al., "Bilirubin Is an Antioxidant of Possible Physiological Importance," <i>Science</i> , Vol. 235(4792):1043-1046 (1987)	
	C215	Stupfel, Maurice et al., "Physiological and Biochemical Effects on Rats and Mice Exposed to Small Concentrations of Carbon Monoxide for Long Periods," <i>Annals of the New York Academy of Sciences</i> , Vol. 174:342-368 (1970)	
	C216	Suganuma, Masami et al., "A New Process of Cancer Prevention Mediated through Inhibition of Tumor Necrosis Factor $\alpha$ Expression," <i>Cancer Research</i> , Vol. 56:3711-3715 (1996)	
	C217	Tamayo, Luis et al., "Carbon monoxide inhibits Hypoxic pulmonary vasoconstriction in rats by a cGMP-independent mechanism," <i>Pflügers Arch. - Eur. J. Physiol.</i> , Vol. 434:698-704 (1997)	
	C218	Tamion, Fabienne et al., "Intestinal preconditioning prevents systemic inflammatory response in hemorrhagic shock. Role of HO-1," <i>Am. J. Physiol. Gastrointest. Liver Physiol.</i> , Vol. 283:G408-G414 (2002)	
	C219	Taylor, Peter C., "Anti-TNF Therapy for Rheumatoid Arthritis and Other Inflammatory Diseases," <i>Molecular Biotechnology</i> , Vol. 19:153-168 (2001)	
	C220	Tenderich, Gero et al., "Hemodynamic Follow-up on Cardiac Allografts from Poisoned Donors," <i>Transplantation</i> , Vol. 66(9):1163-1167 (1998)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Substitute for form 1449/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/511,612-Conf. #4076		
		Filing Date	August 5, 2005		
		First Named Inventor	Fritz H. BACH		
		Art Unit	1652		
		Examiner Name	H. A. Robinson		
Sheet	27	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C221	Tenhunen, Raimo et al., "The Enzymatic Conversion of Heme to Bilirubin by Microsomal Heme Oxygenase," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 61(2):748-755 (1968)	
	C222	Thiemermann, Christoph, "Inhaled CO: Deadly gas or novel therapeutic?" <i>Nature Medicine</i> , Vol. 7(5):534-535 (2001)	
	C223	Thom, Stephen R. et al., "Therapeutic Carbon Monoxide May be Toxic," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 171:1318 (2005)	
	C224	Tobiasch, Edda et al., "Heme Oxygenase-1 Protects Pancreatic $\beta$ Cells From Apoptosis Caused by Various Stimuli," <i>Journal of Investigative Medicine</i> , Vol. 49(6):566-571 (2001)	
	C225	Toda, Koichi et al., "Exogenous Carbon Monoxide Protects Endothelial Cells Against Oxidant Stress and Improves Graft Function after Lung Transplantation," <i>Circulation</i> , Vol. 98(17):1265 (1998)	
	C226	Togane, Yuko et al., "Protective roles of endogenous carbon monoxide in neointimal development elicited by arterial injury," <i>Am. J. Physiol. Heart Circ. Physiol.</i> , Vol. 278:H623-H632 (2000)	
	C227	Tulis, David A. et al., "Adenovirus-Mediated Heme Oxygenase-1 Gene Delivery Inhibits Injury-Induced Vascular Neointima Formation," <i>Circulation</i> , Vol. 104:2710-2715 (2001)	
	C228	Utz, J. et al., "Carbon monoxide relaxes ileal smooth muscle through activation of guanylate cyclase," <i>Biochemical Pharmacology</i> , Vol. 41(8):1195-1201 (1991)	
	C229	Vachharajani, Tushar J. et al., "Heme oxygenase modulates selectin expression in different regional vascular beds," <i>Am. J. Physiol. Heart Circ. Physiol.</i> , Vol. 278:H1613-H1617 (2000)	
	C230	Vassalli, F. et al., "Inhibition of hypoxic pulmonary vasoconstriction by carbon monoxide in dogs," <i>European Respiratory Journal</i> , ERS Annual Congress, Geneva, Switzerland, Sept. 19-23, Abstract No. 1595 (1998)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	28	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C231	Verma, Ajay et al., "Carbo Monoxide: A Putative Neural Messenger," <i>Science</i> , Vol. 259:381-384 (1993)	
	C232	Verran, Deborah et al., "Use of Liver Allografts from Carbon Monoxide Poisoned Cadaveric Donors," <i>Transplantation</i> , Vol. 62(10):1514-1515 (1996)	
	C233	Vitek, Libor et al., "Gilbert syndrome and ischemic heart disease: a protective effect of elevated bilirubin levels," <i>Atherosclerosis</i> , Vol. 160:449-456 (2002)	
	C234	Vreman, Hendrick J. et al., "Carbon Monoxide and Carboxyhemoglobin," <i>Advances in Pediatrics</i> , Vol. 42:303-334 (1995)	
	C235	Wang, Rui et al., "Carbon monoxide-induced vasorelaxation and the underlying mechanisms," <i>British Journal of Pharmacology</i> , Vol. 121:927-934 (1997)	
	C236	Wang, Rui, "Resurgence of carbon monoxide: an endogenous gaseous vasorelaxing factor," <i>Can. J. Physiol. Pharmacol.</i> , Vol. 76:1-15 (1998)	
	C237	Wang, W.P. et al., "Protective role of heme oxygenase-1 on trinitrobenzene sulfonic acid-induced colitis in rats," <i>Am. J. Physiol. Gastrointest. Liver Physiol.</i> , Vol. 281:G586-G594 (2001)	
	C238	WebMD, "Carbon Monoxide Poisoning: Symptoms," retrieved online at <a href="http://www.webmd.com/a-to-z-guides/carbon-monoxide-poisoning-symptoms">http://www.webmd.com/a-to-z-guides/carbon-monoxide-poisoning-symptoms</a> , retrieved July 11, 2005	
	C239	WebMD, "Carbon Monoxide Poisoning: What Happens," retrieved online at <a href="http://www.webmd.com/a-to-z-guides/carbon-monoxide-poisoning-what-happens">http://www.webmd.com/a-to-z-guides/carbon-monoxide-poisoning-what-happens</a> , retrieved July 11, 2005	
	C240	Weir, Gordon C. et al., "Islet transplantation as a treatment for diabetes," <i>Journal of the American Optometric Association</i> , Vol. 69(11):727-732 (1998)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010

Substitute for form 1449/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	10/511,612-Conf. #4076
				Filing Date	August 5, 2005
				First Named Inventor	Fritz H. BACH
				Art Unit	1652
				Examiner Name	H. A. Robinson
Sheet	29	of	30	Attorney Docket Number	CNZ-006USRCE

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C241	Weir, Gordon C. et al., "Scientific and Political Impediments to Successful Islet Transplantation," <i>Diabetes</i> , Vol. 46:1247-1256 (1997)	
	C242	Welty, S.E. et al., "Hyperoxic Lung Injury is Potentiated by SPC-Promotor Driven Expression of an HO-1 Transgene in Mice," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 159(3):A218 (1999)	
	C243	Weng, Yi-Hao et al., "Transpulmonary HO-1 Gene Delivery in Neonatal Mice," <i>American Journal of Respiratory and Critical Care Medicine</i> , Vol. 159(3):A218 (1999)	
	C244	Willoughby, D.A. et al., "Resolution of inflammation," <i>International Journal of Immunopharmacology</i> , Vol. 22:1131-1135 (2000)	
	C245	Yamashita, Kenichiro et al., "Effects of HO-1 induction and carbon monoxide on cardiac transplantation in mice," <i>Exp. Biol. Med.</i> , Vol. 228(5):616 (2003)	
	C246	Yet, Shaw-Fang et al., "Heme Oxygenase 1 in Regulation of Inflammation and Oxidative Damage," <i>Methods in Enzymology</i> , Vol. 353:163-176 (2002)	
	C247	Yuan, Shi et al., "Evidence of Increased Endogenous Carbon Monoxide Production in Newborn Rat Endotoxemia," <i>Chin. Med. Sci. J.</i> , Vol. 12(4):212-215 (1997)	
	C248	Zegdi, Rachid et al., "Increased endogenous carbon monoxide production in severe sepsis," <i>Intensive Care Med.</i> , Vol. 28:793-796 (2002)	
	C249	Zhang, Xuchen et al., "Carbon Monoxide Inhibition of Apoptosis during Ischemia-Reperfusion Lung Injury Is Dependent on the p38 Mitogen-activated Protein Kinase Pathway and Involves Caspase 3," <i>The Journal of Biological Chemistry</i> , Vol. 278(2):1248-1258 (2003)	
	C250	Zhang, Xuchen et al., "Mitogen-activated protein kinases regulate HO-1 gene transcription after ischemia-reperfusion lung injury," <i>Am. J. Physiol. Cell Mol. Physiol.</i> , Vol. 283:L815-L829 (2002)	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.R./

PTO/SB/08b (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/511,612-Conf. #4076		
		Filing Date	August 5, 2005		
		First Named Inventor	Fritz H. BACH		
		Art Unit	1652		
		Examiner Name	H. A. Robinson		
Sheet	30	of	30	Attorney Docket Number	CNZ-006USRC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C251	Zhang, Y. Clare et al., "Adeno-Associated Virus-Mediated IL-10 Gene Therapy Inhibits Diabetes Recurrence in Syngeneic Islet Cell Transplantation of NOD Mice," <i>Diabetes</i> , Vol. 52:708-716 (2003)	
	C252	Zuckerbraun, Brian S. et al., "Carbon Monoxide Protects against Liver Failure through Nitric Oxide-induced Heme Oxygenase 1," <i>J. Exp. Med.</i> , Vol. 198(11):1707-1716 (2003)	
	C253	Zuckerbraun, Brian S. et al., "Carbon Monoxide Inhibits Intestinal Inducible nitric oxide synthase production and ameliorates intestinal inflammation in experimental NEC," <i>J. Am. College of Surgeons</i> , Vol. 197:S50 (2003)	
	C254	Zuckerbraun, Brian S. et al., "Carbon monoxide protects hepatocytes from TNF-alpha/actinomycin D induced cell death," <i>Critical Care Medicine</i> , Vol. 29:A59 (2001)	
	C255	Zuckerbraun, Brian S. et al., "Heme Oxygenase-1: A Cellular Hercules," <i>Hepatology</i> , Vol. 37(4):742-744 (2003)	
	C256	Zuckerbraun, Brian S. et al., "Carbon Monoxide Attenuates the Development of Necrotizing Enterocolitis in an Animal Model," <i>Surgical Infections</i> , Vol. 3(1):83 (2002)	
	C257	International Search Report for Application No. PCT/US3/11411, dated August 12, 2003	
	C258	Japanese Office Action for Application No. 2003-585506, dated November 26, 2009	
	C259	Supplementary European Search Report for Application No. 03746978.0, dated September 24, 2009	
	C260	International Search Report for Application No. PCT/US2007/016032, dated December 21, 2007	
	C261	International Search Report for Application No. PCT/US2007/016023, dated May 2, 2008	

Examiner Signature	/Hope Robinson/	Date Considered	06/11/2010
-----------------------	-----------------	--------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Express Mail Label No. EM 192977415 US Dated: February 26, 2010